

753-54_PCT-US_Sequence_Listing_ST25.txt

<110> Zumbrunn, Jurg
Lociuro, Sergio
Gombert, Frank
Moehle, Kerstin
DeMarco, Steven J.
Vrijbloed, Jan Wim
Mukherjee, Reshma
Obrecht, Daniel
Romagnoli, Barbara
Robinson, John Anthony

<120> Template-Fixed Peptidomimetics as Medicaments against HIV and Cancer

<130> 753-54 PCT/US

<140> 10/550,778

<141> 2005-09-27

<150> PCT/EP2003/04641

<151> 2003-05-02

<160> 25

<170> PatentIn version 3.4

<210> 1

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Template-fixed peptidomimetic

<220>

<221> MISC_FEATURE

<222> (3)..(3)

<223> Xaa = 2-Nal

<220>

<221> DISULFID

<222> (4)..(11)

<220>

<221> MISC_FEATURE

<222> (7)..(7)

<223> Xaa = D-Lys

<220>

<221> MISC_FEATURE

<222> (10)..(10)

<223> Xaa = Cit

<220>

<221> MOD_RES

<222> (12)..(12)

<223> AMIDATION

<400> 1

753-54_PCT-US_Sequence_Listing_ST25.txt
Arg Arg Xaa Cys Tyr Arg Xaa Pro Tyr Xaa Cys Arg
1 5 10

<210> 2
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Template-fixed peptidomimetic

<220>
<221> MISC_FEATURE
<222> (3)..(3)
<223> Xaa = 2-Nal

<220>
<221> DISULFID
<222> (4)..(11)

<220>
<221> MISC_FEATURE
<222> (7)..(7)
<223> Xaa = D-Lys

<220>
<221> MISC_FEATURE
<222> (10)..(10)
<223> Xaa = Cit

<220>
<221> MOD_RES
<222> (12)..(12)
<223> AMIDATION

<400> 2

Arg Arg Xaa Cys Tyr Lys Xaa Pro Tyr Xaa Cys Arg
1 5 10

<210> 3
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Template-fixed peptidomimetic

<220>
<221> MISC_FEATURE
<222> (3)..(3)
<223> Xaa = 2-Nal

<220>
<221> DISULFID
<222> (4)..(11)

<220>
<221> MISC_FEATURE

753-54_PCT-US_Sequence_Listing_ST25.txt

<222> (7)..(7)
<223> Xaa = D-Lys

<220>
<221> MISC_FEATURE
<222> (10)..(10)
<223> Xaa = Cit

<220>
<221> MOD_RES
<222> (12)..(12)
<223> AMIDATION

<400> 3

Arg Arg Xaa Cys Tyr Lys Xaa Pro Arg Xaa Cys Arg
1 5 10

<210> 4
<211> 12
<212> PRT
<213> Artificial sequence

<220>
<223> Template-fixed peptidomimetic

<220>
<221> MISC_FEATURE
<222> (3)..(3)
<223> Xaa = 2-Nal

<220>
<221> DISULFID
<222> (4)..(11)

<220>
<221> MISC_FEATURE
<222> (7)..(7)
<223> Xaa = D-Pro

<220>
<221> MOD_RES
<222> (12)..(12)
<223> AMIDATION

<400> 4

Arg Arg Xaa Cys Tyr Lys Xaa Pro Tyr Arg Cys Arg
1 5 10

<210> 5
<211> 12
<212> PRT
<213> Artificial sequence

<220>
<223> Template-fixed peptidomimetic

<220>

753-54_PCT-US_Sequence_Listing_ST25.txt

<221> MISC_FEATURE
<222> (3)..(3)
<223> Xaa = 2-Nal

<220>
<221> DISULFID
<222> (4)..(11)

<220>
<221> MISC_FEATURE
<222> (7)..(7)
<223> Xaa = D-Pro

<220>
<221> MOD_RES
<222> (12)..(12)
<223> AMIDATION

<400> 5

Arg Arg Xaa Cys Tyr Arg Xaa Pro Tyr Arg Cys Arg
1 5 10

<210> 6
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Template-fixed peptidomimetic

<220>
<221> MISC_FEATURE
<222> (3)..(3)
<223> Xaa = 2-Nal

<220>
<221> DISULFID
<222> (4)..(11)

<220>
<221> MISC_FEATURE
<222> (10)..(10)
<223> Xaa = Cit

<220>
<221> MOD_RES
<222> (12)..(12)
<223> AMIDATION

<400> 6

Arg Arg Xaa Cys Tyr Arg Lys Pro Tyr Xaa Cys Arg
1 5 10

<210> 7
<211> 14
<212> PRT
<213> Artificial Sequence

753-54_PCT-US_Sequence_Listing_ST25.txt

<220>
<223> Template-fixed peptidomimetic

<220>
<221> MISC_FEATURE
<222> (3)..(3)
<223> Xaa = 2-Nal

<220>
<221> DISULFID
<222> (4)..(13)

<220>
<221> MISC_FEATURE
<222> (6)..(6)
<223> Xaa = Cit

<220>
<221> MISC_FEATURE
<222> (8)..(8)
<223> Xaa = D-Pro

<220>
<221> MISC_FEATURE
<222> (12)..(12)
<223> Xaa = Cit

<220>
<221> MOD_RES
<222> (14)..(14)
<223> AMIDATION

<400> 7

Arg Arg Xaa Cys Tyr Xaa Lys Xaa Pro Tyr Arg Xaa Cys Arg
1 5 10

<210> 8
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Template-fixed peptidomimetic

<220>
<221> MOD_RES
<222> (1)..(1)
<223> ACETYLATION

<220>
<221> MISC_FEATURE
<222> (3)..(3)
<223> Xaa = 2-Nal

<220>
<221> DISULFID
<222> (4)..(13)

<220>

753-54_PCT-US_Sequence_Listing_ST25.txt

<221> MISC_FEATURE
<222> (6)..(6)
<223> Xaa = Cit

<220>
<221> MISC_FEATURE
<222> (8)..(8)
<223> Xaa = D-Pro

<220>
<221> MISC_FEATURE
<222> (12)..(12)
<223> Xaa = Cit

<220>
<221> MOD_RES
<222> (14)..(14)
<223> AMIDATION

<400> 8

Arg Arg Xaa Cys Tyr Xaa Lys Xaa Pro Tyr Arg Xaa Cys Arg
1 5 10

<210> 9
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Template-fixed peptidomimetic

<220>
<221> MISC_FEATURE
<222> (1)..(1)
<223> Xaa = iPrArg

<220>
<221> MISC_FEATURE
<222> (3)..(3)
<223> Xaa = 2-Nal

<220>
<221> DISULFID
<222> (4)..(13)

<220>
<221> MISC_FEATURE
<222> (6)..(6)
<223> Xaa = Cit

<220>
<221> MISC_FEATURE
<222> (8)..(8)
<223> Xaa = D-Pro

<220>
<221> MISC_FEATURE
<222> (12)..(12)
<223> Xaa = Cit

753-54_PCT-US_Sequence_Listing_ST25.txt

<220>
<221> MOD_RES
<222> (14)..(14)
<223> AMIDATION

<400> 9

Xaa Arg Xaa Cys Tyr Xaa Lys Xaa Pro Tyr Arg Xaa Cys Arg
1 5 10

<210> 10
<211> 14
<212> PRT
<213> Artificial sequence

<220>
<223> Template-fixed peptidomimetic

<220>
<221> MISC_FEATURE
<222> (1)..(1)
<223> Xaa = D-Arg

<220>
<221> MISC_FEATURE
<222> (3)..(3)
<223> Xaa = 2-Nal

<220>
<221> DISULFID
<222> (4)..(13)

<220>
<221> MISC_FEATURE
<222> (6)..(6)
<223> Xaa = Cit

<220>
<221> MISC_FEATURE
<222> (8)..(8)
<223> Xaa = D-Pro

<220>
<221> MISC_FEATURE
<222> (12)..(12)
<223> Xaa = Cit

<220>
<221> MOD_RES
<222> (14)..(14)
<223> AMIDATION

<400> 10

Xaa Arg Xaa Cys Tyr Xaa Lys Xaa Pro Tyr Arg Xaa Cys Arg
1 5 10

<210> 11
<211> 14
<212> PRT

753-54_PCT-US_Sequence_Listing_ST25.txt
<213> Artificial Sequence

<220>
<223> Template-fixed peptidomimetic

<220>
<221> DISULFID
<222> (4)..(13)

<220>
<221> MISC_FEATURE
<222> (6)..(6)
<223> Xaa = Cit

<220>
<221> MISC_FEATURE
<222> (8)..(8)
<223> Xaa = D-Pro

<220>
<221> MISC_FEATURE
<222> (12)..(12)
<223> Xaa = Cit

<220>
<221> MOD_RES
<222> (14)..(14)
<223> AMIDATION

<400> 11

Arg Arg Trp Cys Tyr Xaa Lys Xaa Pro Tyr Arg Xaa Cys Arg
1 5 10

<210> 12
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Template-fixed peptidomimetic

<220>
<221> MISC_FEATURE
<222> (3)..(3)
<223> Xaa = F(pNH2)

<220>
<221> DISULFID
<222> (4)..(13)

<220>
<221> MISC_FEATURE
<222> (6)..(6)
<223> Xaa = Cit

<220>
<221> MISC_FEATURE
<222> (8)..(8)
<223> Xaa = D-Pro

753-54_PCT-US_Sequence_Listing_ST25.txt

<220>
<221> MISC_FEATURE
<222> (12)..(12)
<223> Xaa = Cit

<220>
<221> MOD_RES
<222> (14)..(14)
<223> AMIDATION

<400> 12

Arg Arg Xaa Cys Tyr Xaa Lys Xaa Pro Tyr Arg Xaa Cys Arg
1 5 10

<210> 13
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Template-fixed peptidomimetic

<220>
<221> MISC_FEATURE
<222> (3)..(3)
<223> Xaa = W(6-C1)

<220>
<221> DISULFID
<222> (4)..(13)

<220>
<221> MISC_FEATURE
<222> (6)..(6)
<223> Xaa = Cit

<220>
<221> MISC_FEATURE
<222> (8)..(8)
<223> Xaa = D-Pro

<220>
<221> MISC_FEATURE
<222> (12)..(12)
<223> Xaa = Cit

<220>
<221> MOD_RES
<222> (14)..(14)
<223> AMIDATION

<400> 13

Arg Arg Xaa Cys Tyr Xaa Lys Xaa Pro Tyr Arg Xaa Cys Arg
1 5 10

<210> 14
<211> 14

753-54_PCT-US_Sequence_Listing_ST25.txt

<212> PRT
<213> Artificial Sequence

<220>
<223> Template-fixed peptidomimetic

<220>
<221> MISC_FEATURE
<222> (1)..(1)
<223> Xaa = (EA)G

<220>
<221> MISC_FEATURE
<222> (3)..(3)
<223> Xaa = 2-Nal

<220>
<221> DISULFID
<222> (4)..(13)

<220>
<221> MISC_FEATURE
<222> (6)..(6)
<223> Xaa = Cit

<220>
<221> MISC_FEATURE
<222> (8)..(8)
<223> Xaa = D-Pro

<220>
<221> MISC_FEATURE
<222> (12)..(12)
<223> Xaa = Cit

<220>
<221> MOD_RES
<222> (14)..(14)
<223> AMIDATION

<400> 14

Xaa Arg Xaa Cys Tyr Xaa Lys Xaa Pro Tyr Arg Xaa Cys Arg
1 5 10

<210> 15
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Template-fixed peptidomimetic

<220>
<221> MISC_FEATURE
<222> (1)..(1)
<223> Xaa = (PrA)G

<220>
<221> MISC_FEATURE

753-54_PCT-US_Sequence_Listing_ST25.txt

<222> (3)..(3)
<223> Xaa = 2-Nal

<220>
<221> DISULFID
<222> (4)..(13)

<220>
<221> MISC_FEATURE
<222> (6)..(6)
<223> Xaa = Cit

<220>
<221> MISC_FEATURE
<222> (8)..(8)
<223> Xaa = D-Pro

<220>
<221> MISC_FEATURE
<222> (12)..(12)
<223> Xaa = Cit

<220>
<221> MOD_RES
<222> (14)..(14)
<223> AMIDATION

<400> 15

Xaa Arg Xaa Cys Tyr Xaa Lys Xaa Pro Tyr Arg Xaa Cys Arg
1 5 10

<210> 16
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Template-fixed peptidomimetic

<220>
<221> MISC_FEATURE
<222> (1)..(1)
<223> Xaa = (BA)G

<220>
<221> MISC_FEATURE
<222> (3)..(3)
<223> Xaa = 2-Nal

<220>
<221> DISULFID
<222> (4)..(13)

<220>
<221> MISC_FEATURE
<222> (6)..(6)
<223> Xaa = Cit

<220>
<221> MISC_FEATURE

753-54_PCT-US_Sequence_Listing_ST25.txt

<222> (8)..(8)
<223> Xaa = D-Pro

<220>
<221> MISC_FEATURE
<222> (12)..(12)
<223> Xaa = Cit

<220>
<221> MOD_RES
<222> (14)..(14)
<223> AMIDATION

<400> 16

Xaa Arg Xaa Cys Tyr Xaa Lys Xaa Pro Tyr Arg Xaa Cys Arg
1 5 10

<210> 17
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Template-fixed peptidomimetic

<220>
<221> MISC_FEATURE
<222> (1)..(1)
<223> Xaa = (EGU)G

<220>
<221> MISC_FEATURE
<222> (3)..(3)
<223> Xaa = 2-Nal

<220>
<221> DISULFID
<222> (4)..(13)

<220>
<221> MISC_FEATURE
<222> (6)..(6)
<223> Xaa = Cit

<220>
<221> MISC_FEATURE
<222> (8)..(8)
<223> Xaa = D-Pro

<220>
<221> MISC_FEATURE
<222> (12)..(12)
<223> Xaa = Cit

<220>
<221> MOD_RES
<222> (14)..(14)
<223> AMIDATION

<400> 17

753-54_PCT-US_Sequence_Listing_ST25.txt

Xaa Arg Xaa Cys Tyr Xaa Lys Xaa Pro Tyr Arg Xaa Cys Arg
1 5 10

<210> 18
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Template-fixed peptidomimetic

<220>
<221> MISC_FEATURE
<222> (1)..(1)
<223> Xaa = (PrGU)G

<220>
<221> MISC_FEATURE
<222> (3)..(3)
<223> Xaa = 2-Nal

<220>
<221> DISULFID
<222> (4)..(13)

<220>
<221> MISC_FEATURE
<222> (6)..(6)
<223> Xaa = Cit

<220>
<221> MISC_FEATURE
<222> (8)..(8)
<223> Xaa = D-Pro

<220>
<221> MISC_FEATURE
<222> (12)..(12)
<223> Xaa = Cit

<220>
<221> MOD_RES
<222> (14)..(14)
<223> AMIDATION

<400> 18

Xaa Arg Xaa Cys Tyr Xaa Lys Xaa Pro Tyr Arg Xaa Cys Arg
1 5 10

<210> 19
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Template-fixed peptidomimetic

753-54_PCT-US_Sequence_Listing_ST25.txt

<220>
<221> MISC_FEATURE
<222> (1)..(1)
<223> Xaa = (BGU)G

<220>
<221> MISC_FEATURE
<222> (3)..(3)
<223> Xaa = 2-Nal

<220>
<221> DISULFID
<222> (4)..(13)

<220>
<221> MISC_FEATURE
<222> (6)..(6)
<223> Xaa = Cit

<220>
<221> MISC_FEATURE
<222> (8)..(8)
<223> Xaa = D-Pro

<220>
<221> MISC_FEATURE
<222> (12)..(12)
<223> Xaa = Cit

<220>
<221> MOD_RES
<222> (14)..(14)
<223> AMIDATION

<400> 19

Xaa Arg Xaa Cys Tyr Xaa Lys Xaa Pro Tyr Arg Xaa Cys Arg
1 5 10

<210> 20
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Template-fixed peptidomimetic

<220>
<221> MISC_FEATURE
<222> (3)..(3)
<223> Xaa = 2-Nal

<220>
<221> DISULFID
<222> (4)..(13)

<220>
<221> MISC_FEATURE
<222> (6)..(6)
<223> Xaa = Cit

753-54_PCT-US_Sequence_Listing_ST25.txt

<220>
<221> MISC_FEATURE
<222> (8)..(8)
<223> Xaa = D-Pro

<220>
<221> MISC_FEATURE
<222> (12)..(12)
<223> Xaa = Cit

<400> 20

Arg Arg Xaa Cys Tyr Xaa Lys Xaa Pro Tyr Arg Xaa Cys Arg
1 5 10

<210> 21
<211> 13
<212> PRT
<213> Artificial sequence

<220>
<223> Template-fixed peptidomimetic

<220>
<221> MISC_FEATURE
<222> (3)..(3)
<223> Xaa = 2-Nal

<220>
<221> DISULFID
<222> (4)..(13)

<220>
<221> MISC_FEATURE
<222> (6)..(6)
<223> Xaa = Cit

<220>
<221> MISC_FEATURE
<222> (8)..(8)
<223> Xaa =
(2S,6S,9S)-6-Amino-2-carboxymethyl-3,8-diazabicyclo-[4.3.0]-nonan-1,4-dione

<220>
<221> MISC_FEATURE
<222> (11)..(11)
<223> Xaa = Cit

<220>
<221> MOD_RES
<222> (13)..(13)
<223> AMIDATION

<400> 21

Arg Arg Xaa Cys Tyr Xaa Lys Xaa Tyr Arg Xaa Cys Arg
1 5 10

<210> 22

753-54_PCT-US_Sequence_Listing_ST25.txt

<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> Template-fixed peptidomimetic

<220>
<221> MISC_FEATURE
<222> (3)..(3)
<223> Xaa = 2-Nal

<220>
<221> DISULFID
<222> (4)..(13)

<220>
<221> MISC_FEATURE
<222> (6)..(6)
<223> Xaa = Cit

<220>
<221> MISC_FEATURE
<222> (8)..(8)
<223> Xaa = AMPA

<220>
<221> MISC_FEATURE
<222> (11)..(11)
<223> Xaa = Cit

<220>
<221> MOD_RES
<222> (13)..(13)
<223> AMIDATION

<400> 22

Arg Arg Xaa Cys Tyr Xaa Lys Xaa Tyr Arg Xaa Cys Arg
1 5 10

<210> 23
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Template-fixed peptidomimetic

<220>
<221> MISC_FEATURE
<222> (3)..(3)
<223> Xaa = 2-Nal

<220>
<221> DISULFID
<222> (4)..(13)

<220>
<221> MISC_FEATURE

753-54_PCT-US_Sequence_Listing_ST25.txt

<222> (6)..(6)
<223> Xaa = Cit

<220>
<221> MISC_FEATURE
<222> (9)..(9)
<223> Xaa = D-Pro

<220>
<221> MISC_FEATURE
<222> (12)..(12)
<223> Xaa = Cit

<220>
<221> MOD_RES
<222> (14)..(14)
<223> AMIDATION

<400> 23

Arg Arg Xaa Cys Tyr Xaa Lys Pro Xaa Tyr Arg Xaa Cys Arg
1 5 10

<210> 24
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Template-fixed peptidomimetic

<220>
<221> MISC_FEATURE
<222> (3)..(3)
<223> Xaa = 2-Nal

<220>
<221> DISULFID
<222> (4)..(13)

<220>
<221> MISC_FEATURE
<222> (6)..(6)
<223> Xaa = Cit

<220>
<221> MISC_FEATURE
<222> (12)..(12)
<223> Xaa = Cit

<220>
<221> MOD_RES
<222> (14)..(14)
<223> AMIDATION

<400> 24

Arg Arg Xaa Cys Tyr Xaa Lys Pro Pro Tyr Arg Xaa Cys Arg
1 5 10

753-54_PCT-US_Sequence_Listing_ST25.txt

<210> 25
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Template-fixed peptidomimetic

<220>
<221> MISC_FEATURE
<222> (3)..(3)
<223> Xaa = 2-Nal

<220>
<221> DISULFID
<222> (4)..(13)

<220>
<221> MISC_FEATURE
<222> (6)..(6)
<223> Xaa = Cit

<220>
<221> MISC_FEATURE
<222> (8)..(8)
<223> Xaa = D-Pic

<220>
<221> MISC_FEATURE
<222> (12)..(12)
<223> Xaa = Cit

<220>
<221> MOD_RES
<222> (14)..(14)
<223> AMIDATION

<400> 25

Arg Arg Xaa Cys Tyr Xaa Lys Xaa Pro Tyr Arg Xaa Cys Arg
1 5 10